

## RDS-2 (1946, project)

DATA AS OF 2013 (standard replenishment)

RDS-2 / S-2 / product 601

★★★

The second version of the first domestic atomic bomb. The atomic bomb was developed by Design Bureau No. 11 of the Measuring Instruments Laboratory No. 2 of the USSR Academy of Sciences (since 1950, the Design Bureau was transferred to the structure of the First Main Directorate under the USSR Council of Ministers) in accordance with the scientific and technical requirements of the scientific director of work on the creation of atomic weapons, Academician Kurchatov (Measuring Instruments Laboratory No. 2 of the USSR Academy of Sciences, created in February 1943) and the chief designer of Design Bureau No. 11 Yu. B. Khariton (for more information, see [RDS-1](#)). The RDS-2 bomb was the second version of the RDS bomb, which was produced with a "gun" charge. The bomb had a different ballistic body and the working substance of the charge was uranium-235 ("light fuel").

On June 21, 1946, by Resolution of the Council of Ministers of the USSR No. 1286-525ss "On the plan for the development of work of Design Bureau No. 11 at Laboratory No. 2 of the USSR Academy of Sciences" the tasks and deadlines for their implementation were stipulated:

"1. To oblige Design Bureau No. 11 (Comrades Khariton, Zernov):

a) to create, under the scientific supervision of Laboratory No. 2 of the USSR Academy of Sciences (Academician Kurchatov), the "Reactive Engine S" (abbreviated "RDS") in two versions - with the use of heavy fuel (version S-1) and with the use of light fuel (version S-2);

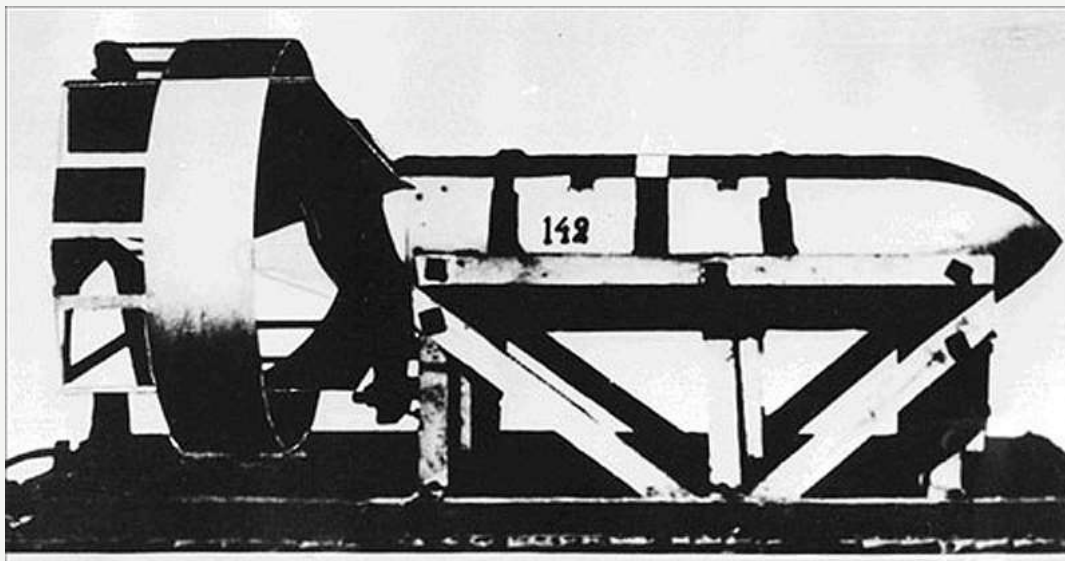
b) to present the tested and manufactured first "RDS" in versions S-1 and S-2, 1 copy of each version, for state testing in stationary conditions: for version S-1 - by January 1, 1948, for version S-2 - by 1 June 1948;

c) the first developed and manufactured "RDS" in the aviation version in the S-1 and S-2 variants, 1 copy of each variant, to present for state flight tests: for the S-1 variant - by March 1, 1948, for the S-2 variant - by January 1, 1949.

2. In order to ensure the tasks specified in paragraph 1, Design Bureau No. 11 (Comrades Khariton and Zernov) is obliged to perform the following work:

a) develop tactical and technical tasks for the design of the "RDS" for the S-1 and S-2 variants by July 1, 1946."

By variant S-1 was meant the bomb that we now know as the RDS-1, S-2 - RDS-2 - the first version of the bomb with this name. "Heavy fuel" - plutonium-239, "light fuel" - uranium-235.



One of the variants of the ballistic body for the RDS-2/S-2 bomb ( <http://old.vniief.ru> ).

Author: [DIMMI](#)

Created: 03.04.2013 17:39:30

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## RDS-3 (project, 1948)

DATA AS OF 2013 (in progress)

RDS-3 (project, 1948)

★

Atomic bomb (project). The bomb was created by Design Bureau No. 11 of the Measuring Instruments Laboratory No. 2 of the USSR Academy of Sciences (since 1950, the design bureau was transferred to the structure of the First Main Directorate under the USSR Council of Ministers). The development under the name RDS-3 (the third version of the first generation atomic bomb) was started by the decision of the special committee of June 5, 1948, secured by the Resolutions of the USSR Council of Ministers of June 10, 1948 No. 1989-773ss/op, of March 3, 1949 No. 864-328ss/op "On the terms of production of RDS-2 and RDS-3" and of June 5, 1949 No. 2243-879ss/op "On the terms of development and production of the product "RDS-3".

By the Resolution of the USSR Council of Ministers No. 591-236ss/op "On the plan of research and design work KB-11" of February 14, 1950, decisions were made to terminate the development of [the RDS-2](#) and RDS-3 projects begun in 1948 ( [source](#) ):

"II. To amend the Resolution of the Council of Ministers of the USSR of February 8, 1948, No. 234-98, to cease development of [the RDS-2](#) in KB-11, due to the fact that the (... quantities...) of uranium-235 required for this design can be used more effectively in the RDS-5 design.

III. To amend the Resolution of the Council of Ministers of the USSR of June 10, 1948, No. 1989-773 and June 5, 1949, No. 2243-879, to suspend development of the RDS-3 in KB-11, due to the fact that the RDS-5 design is currently being developed, which ensures better use of uranium-235."

Author: [DIMMI](#)

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Dima, have you tried to contact Diana on the topic? - I think she (h has...

Sierra 2016-12-13 15:10

[Grom / Sapsan / Grom-2 \(proj Ukraine\)](#)

Another great one on the topic... What do they smoke in Ukraine?! :crazy: <http://inosmi.ru...>

Sierra 2016-11-07 15:09

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Awesome interview about the Grom-2 OTRK, announced by Ukraine as a replacement for the Sapsan. Something...

[Sierra](#) 2016-11-05 21:47

[Grom / Sapsan / Grom-2 \(project Ukraine\)](#)

[hisgloves](#) Wrote:I wonder if at least this news will cool the ardor of another post-Soviet...

[DIMMI](#) 2013-06-27 21:27

[Grom / Sapsan / Grom-2 \(project Ukraine\)](#)

I wonder if at least this news will cool the ardor of another post-Soviet "power"...

[hisgloves](#) 2013-06-27 13:31

[Grom / Sapsan / Grom-2 \(project Ukraine\)](#)

The development of the Sapsan complex has been terminated

[DIMMI](#) 2013-06-27 01:41

[Grom / Sapsan / Grom-2 \(project Ukraine\)](#)

Exactly so

[DIMMI](#) 2012-02-05 11:14

[Grom / Sapsan / Grom-2 \(project Ukraine\)](#)

[DIMMI](#) Wrote: there was also a picture a la Pershing[  ]http://bmpd.livejournal.com/15734

[Mikhael](#) 2012-02-05 10:57

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there was also a picture a la Pershing

[DIMMI](#) 2012-02-05 03:18

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[10V](#) 2012-02-05 03:16

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